静电场的几个可能的解析解

黄山

(芜湖职业技术学院， 安徽， 芜湖，241003)

摘要：如果这几个可能的静电场的解析解是对的，那么我们能直接得到基本物理常数之间的关系式。

关键词：万有引力常数，静电场，基本原子质量，质子半径。

$$
\begin{cases}
1.\dfrac{(e_o)^2}{(4\pi)(\varepsilon_0)(a_0)^2} = \dfrac{(m_e)[\alpha_o]^2(c)^2}{(a_0)} \\
2.\left[\dfrac{(e_o)}{(4\pi)(\varepsilon_0)}\right]^2 /(e_o) = \dfrac{1}{2}(m_e)[\alpha_o]^2(c)^2/(e_o) = \dfrac{(m_{atom})(c)^2}{(2\pi)(R_\infty)}/(e_o) = 13.6 \\
3.\left[\dfrac{(e_o)}{(4\pi)(\varepsilon_0)(a_0)}\right]^2 = \left[\dfrac{(m_{atom})(G_N)}{(4\pi)(a_0)^2(2\pi)^2(a_0)^2}\right]^2 = \dfrac{(m_{atom})}{(2\pi)^4(r_a)(r_e)(R_\infty)(a_0)} = \dfrac{(m_e)(m_{atom})(R_\infty)}{(4\pi)(a_0)^2(2\pi)^2(a_0)^2(2\pi)(r_a)}
\end{cases}
$$

参考文献：无。

Several possible analytical solutions for electrostatic fields

HuangShan

(Wuhu Institute of Technology, China, Wuhu, 241003)

Abstract: If the analytical solutions for these possible electrostatic fields are correct, then we can directly obtain the relationship between the basic physical constants.

Key words: universal Gravitational constant, electrostatic field, basic atomic mass, proton radius.

$$\begin{cases} 1.\ \dfrac{(e_o)^2}{(4\pi)(\varepsilon_0)(a_0)^2} = \dfrac{(m_e)[\alpha_o]^2(c)^2}{(a_0)} \\ 2.\ \left[\dfrac{(e_o)}{(4\pi)(\varepsilon_0)}\right]^2/(e_o) = \dfrac{1}{2}(m_e)[\alpha_o]^2(c)^2/(e_o) = \dfrac{(m_{atom})(c)^2}{(2\pi)(R_\infty)}/(e_o) = 13.6 \\ 3.\ \left[\dfrac{(e_o)}{(4\pi)(\varepsilon_0)(a_0)}\right]^2 = \left[\dfrac{(m_{atom})(G_N)}{(4\pi)(a_0)^2(2\pi)^2(a_0)^2}\right]^2 = \dfrac{(m_{atom})}{(2\pi)^4(r_a)(r_e)(R_\infty)(a_0)} = \dfrac{(m_e)(m_{atom})(R_\infty)}{(4\pi)(a_0)^2(2\pi)^2(a_0)^2(2\pi)(r_a)} \end{cases}$$

Reference: none.